

NATHANIEL WOODTHORPE

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Experience

GitHub

May 2019 - Current

Program Manager

- Led a team of 6 developing GitHub Classroom, an edutech tool used by over 100,000 students and teachers.
- Collaborated with engineering, design, and leadership to set and work towards OKRs.
- Wrote project briefs, blog posts and email newsletter campaigns.
- Mentored and onboarded new engineers and engineering interns.

GitHub

May 2017 - May 2019

Software Engineer

- Worked on the core "repositories" team doing feature requests, performance improvements and bug fixes.
- Developed new GraphQL/REST APIs and improved existing ones, focusing on performance and usability.
- Gave technical and non-technical interviews for engineering candidates.
- Wrote several internal blog posts and gave technical talks at engineering all-hands.
- Mentored 6 engineering interns. Offered 1-1's, pairing sessions, and technical mentorship.

Tinfoil Security

January 2017 - May 2017

Software Engineering Intern

- Worked on a web-app security vulnerability scanner in Rails.
- Created a Chrome extension that records and serializes re-playable user authentication sequences.
- Wrote a blog post about the process of developing a testable extension. (<http://nwoodthorpe.com/tinfoil>)
- Learned about web security vulnerabilities and how to prevent them while developing software.

Shopify

May 2016 - August 2016

Software Developer Intern

- Worked on Shopify Accounting, a Rails app used by over 5000 businesses.
- Generated revenue by leading a team of 3 that launched Shopify's first premium app.
- Decreased app support escalations by 25% by identifying and solving common user issues.
- Daily tasks included code reviews, working on features, and beating the full-timers at ping-pong.

Projects

GraphQL Remote Loader, an Alternative to Schema Stitching

January 2018

- Performant, batched GraphQL queries from within the resolvers of a graphql-ruby API.
- Shopify's graphql-batch is used to batch all requested data into a single GraphQL query.
- Presented the project at a GraphQL meetup in Toronto.

Personal Website on a Bash HTTP Server + Go Load Balancer

January 2017

- Wrote an HTTP web server in Bash and a load balancer in Go.
- Server fetches web-pages and assets, handles MIME types, and responds with correct response codes.

Find more projects on my GitHub

Education

University of Waterloo Bachelor of Computer Science Co-op (Incomplete)

2015-2017